



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 06350503 A

(43) Date of publication of application: 22.12.1994

(51) Int. Cl. H04B 7/26  
H04J 13/00

(21) Application number: 05163369  
(22) Date of filing: 08.06.1993

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## (54) COMMUNICATION METHOD BETWEEN ROAD AND VEHICLE

## (57) Abstract:

**PURPOSE:** To perform access at high speed by allocating any specified one of pseudo noise codes to a down control channel, allocating any specified one different from that code to an up control channel and allocating the remaining codes to a speaking channel.

**CONSTITUTION:** Although a road station receives the up control channel transmitted from a mobile station 200, it is possible at such a time for two mobile stations A and B to enter the communication area of the road station and to simultaneously start transmitting up control signals. At that time, the ID of the mobile station A is defined as IDA, and the ID of the mobile station B is defined as IDB. The road station receives two up control channel signals transmitted from these mobile stations A and B. In this case, the phases of up control channel PN code generators 217 of the mobile stations A and B are set by a random number generator 216. When the cycle length of the up control channel code is 1023 chips, for example, the probability of matching the phases is reduced to 1/1023, and the possibility

of the collision of the up control channel PN codes is lowered.

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